GOVERNMENT OF INDIA
URBAN DEVELOPMENT
LOK SABHA

UNSTARRED QUESTION NO:26
ANSWERED ON:10.08.2007
MUMBAI WATER DRAINAGE SYSTEM
Prabhu Shri Suresh Prabhakar

Will the Minister of URBAN DEVELOPMENT be pleased to state:

(a) whether the Union Government have sanctioned Rs.1200 crore to overhaul Mumbai`s 150 years old storm water drainage system;

(b) if so, the details thereof;

(c) whether the funds have been released to the State Government; and

(d) if so, the details thereof?

Answer

MINISTER OF THE STATE IN THE MINISTRY OF URBAN DEVELOPMENT (SHRI AJAY MAKEN)

(a)&(b): Yes, Sir. The Government has approved Brihan Mumbai Storm Water Drainage Project (BRIMSTOWAD) at an estimated cost of Rs.1200.53 crore. Details of works to be executed under the project are at Annexure-I.

(c)&(d): Funds to implement the project are to be released by the Planning Commission directly to the State Government in phased manner as State Plan Assistance (SPA). For year 2007-08 an amount of Rs.400 crore is to be provided to State Government of Maharashtra.

ANNEXURE-I

Annexure referred to in reply Lok Sabha USQ No.26 for 10.8.2007.

BRIEF O F WORKS TO BE UNDERTAKEN UNDER BRIMSTOWAD PROJECT AND PROJECT OUTCOMES AND DELIVERABLES.

The BRIMSTOWAD Project for improvement of Storm Water Drainage in Mumbai has already been approved by the Ministry at an overall cost of Rs.1200.53 crore. The project has been approved by CCEA on 12.7.2007.

A brief giving the details of works to be taken up, the physical infrastructure, the area and population to be benefited along with cost is placed below for kind perusal.

I. PHASE-I- PRIORITY WORKS -RS.356.55 CRORE

Sl. No.	Name of the Works	Recommended by CPHEEO (Rs. in crore)
1.	Storm Water Drains for City areas, Rehabilitation of SWD System at Patte Bapu Rao Marg, Ready Road, Dr. Moses Road, and Body Guard Lane.	103.76
	4 projects	
	(Length 9.38 Km/12.25 lakh Popln.)	
2.	Widening `Improving/Remodeling/Draining premier nallah in catchment`s areas in	47.55

in Eastern Suburbs area`.

8 projects

(Length 18.78 Km/9,50 lakh Popln.)

3. Widening `Improving/ Remodeling/Draining premier nallah in catchment`s in Western suburbs` 61.24

7 projects

(Length 28.11 Km/14.75 lakh Popln.)

4. Storm water pumping stations including pumps, dry & wet well, flood gates inlet works, screening arrangements control room and instrumentation in Lovegrove, Haji Ali, Cleaveland Bunder & Irla 144.00

4 projects

Total 356.55

II. PHASE II- BALANCE - WORKS - RS.843.98 CRORE

Sl. No.	Works Proposed in by CPHEEO (Rs. in crore)	Recommended
1.	City (15 subworks)	246.19
	(Length 15.08 Km/ 16.20 lakh Popln.)	
2.	Eastern suburbs (11 subworks)	228.74
	(Length 51.20 Km/23.70 Popln.)	
3.	Western suburbs (9 subworks)	204.07
	(Length 47.48 Km/24.85 lakh Popln.)	
4.	Pumping Stations (including O&M cost of Rs.15.60 crore)	140.40

Sub total	819.40
Contingencies @ 3%	24.58
Total	843.98

Total Phase-I : Rs. 356.55 crore

Total Phase-II : Rs. 843.98 crore

Grand Total : Rs. 1200.53 crore

Project outcomes/deliverables:
(i) Upgradation of Storm Water Drainage System in Mumbai:

The improved SWD System is designed to withstand a storm of intensity 50 mm / hour against the present 25 mm/hour. The SWD system in Tidal Zone is designed to withstand a storm of intensity 100 mm/hour against the present 25 mm/hour.

The co-efficient of imperviousness considered as 0.98 (say 1.00) as against the present 0.50.

(ii) Reduction in flood incidents:

The incidents of flooding are expected to come down to 2 days from 6 days per year.

(iii) Averting Economic Loss:

The expected avoidance of flooding for 4 days per year is likely to result into a saving of Rs.1550 crore per year (386x4 = 1544 Say, 1550 crore), as a measure of economic loss expected to be averted.

(iv) Averting Other Losses:

Averting other non-quantifiable losses such as loss of human life, health, property etc.